

## ABSTRACT OF THE DISCLOSURE

Energy subtraction processing can be carried out easily in an image data handling apparatus. In the image data handling apparatus, a low-energy image data set and a high-energy image data set are input from a buffer memory, and energy subtraction processing is carried out thereon by ES processing means to generate an energy subtraction image data set. An image based on the energy subtraction image data set is displayed on a display unit. The image data handling apparatus comprises information addition means for adding combination information indicating that the low-energy image data set belongs to the same combination as the high-energy image data set.